

Amendments to the Specification:

Please replace the paragraph on page 1, lines 15-29, with the following amended paragraph:

FIG. 1 is a simplified diagram of one row of a conventional phased array antenna 10 utilizing electronic beam steering, a complete planar phased array antenna having a number of such rows. The antenna 10 includes a plurality of radiating elements 12 each of which has its own phase shifter 14. An input line 16 carrying a transmission signal is coupled to each phase shifter 14, which imparts a respective predetermined phase shift (ϕ , 2ϕ , 3ϕ and 4ϕ , respectively) to the transmission signal as it passes through that phase shifter. The phase shifted transmission signals are then coupled to respective radiating elements 12 for propagation of the beam. Various types of phase shifters 14 have been developed, including switched-line phase shifters, reflection-line phase shifters and loaded-line phase shifters.

Please replace the paragraph on page 5, lines 7-21, with the following amended paragraph:

A preferred embodiment shown in **FIGS. 2** and **3** comprises a hybrid phase shifter assembly 20 including a 2-bit digital delay line module 22 carrying a pair of flip-chip MEMS switch modules 24 and 26 (see **FIG. 3**). As best seen in **FIG. 2**, the digital delay line module 22 comprises a base substrate 28 fabricated of an insulating material such as alumina, quartz, or a microwave ceramic, or a semi-insulating material such as high-resistivity silicon or GaAs. Patterned on a surface 30 of

the substrate 28 are a pair of serially connected delay line stages 32 and 34 for inserting a cumulative time delay in a transmission signal, "IN" (generally the base carrier frequency of the antenna) appearing on an input line 36 coupled to the first delay line stage 32. More stages may be used so as to provide higher beam steering resolution.

Please replace the paragraph on page 7, lines 1-11, with the following amended paragraph:

In the second time delay stage 34, additional phase shift may be imparted to the transmission signal in the same manner as in the first time delay stage 32 by closing respective input and output switches within the second stage MEMS switch module 26. After passing through the second time delay stage 34, the phase-shifted signal, "OUT", appears on an output line 86 and from there may be passed through additional time delay stages (not shown) where, for higher resolution, still additional phase shifts can be inserted by closing selected MEMS switches in the same manner as in the two previous time delay stages.

Please replace the paragraph extending from page 9, line 28, through page 10, line 9, with the following amended paragraph:

FIGS. 5 and 6 show an integrated electronic scanning array antenna 110 implementation (see **FIG. 5**) incorporating multiple phase shifters in accordance with the present invention. **FIGS. 5 and 6** show a single package 112 (see **FIG. 5**) integrating four hybrid phase shifter assemblies ~~114-117~~ 114, 115, 116 and 117 feeding time-delayed signals (ϕ , 2ϕ , 3ϕ)

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and 4ϕ , respectively, in FIG. 5) to corresponding antenna elements or radiators ~~118-121~~ 118, 119, 120 and 121. The package may be hermetically sealed by a single lid or cover 122 (FIG. 6) whose seal footprint does not intercept any of the elements patterned on the base substrate. Although **FIGS. 5** and **6** show four hybrid assembly phase shifters in a single package, it will evident that any number of phase shifters may be employed within a package.